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(IDS SEARCH.VER1.1-9/13/01)

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PATENT

The filing of this document shall not be construed to mean that any search has been made or, that if made such search was complete or exhaustive, or that no other material information as defined in 37 CFR § 1.56 exists. A list of the references is set forth on Form PTO-1449, which is enclosed herewith in duplicate along with a copy of each cited reference. Applicants respectfully request that the Examiner return to Applicants the enclosed copy of the Form PTO-1449 indicating consideration of the references.

- ☒ The undersigned hereby certifies that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

Also enclosed for your convenience is a copy of the International Search Report.

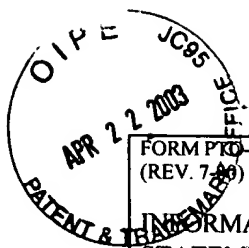
Respectfully submitted,

Dated: April 16, 2003

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (REV. 7-96) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) DATE MAILED: April 16, 2003	ATTY. DOCKET NO. 000276	SERIAL NO. 09/986,222
	APPLICANT Kan et al.	
	FILING DATE October 22, 2001	GROUP 2681

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	Ref No	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPRO- PRIATE
	A1						RECEIVED APR 23 2003 Technology Center 2600
	A2						
	A3						
	A4						
	A5						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	Ref No	DOCUMENT NUMBER	DATE	COUNTRY	NAME	CLASS	SUB CLASS
	B1						
	B2						
	B3						
	B4						
	B5						
	B6						
	B7						

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Page, Etc.)

	C1	Blostein, S., et al. (1995) A change-detection approach to monitoring fading channel bandwidth. Information Theory pg. 155.
	C2	Li, H., et al. (1990) An adaptive filtering technique for pilot aided transmission systems. IEEE pgs. 507-512.
	C3	Oh, H., et al. (2000) An adaptive channel estimation scheme for DS-CDMA systems. VTC pgs. 2839-2843.
	C4	Sakamoto, M., et al. (2000) Adaptive channel estimation with velocity estimator for W-CDMA receiver. VTC pgs. 2024-2028.
EXAMINER		DATE CONSIDERED
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		